

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of the Claims:

1-57. (Canceled).

Please add the following new claims:

58. (New) A tissue dressing apparatus for supplying one or more gases to a target area, comprising a top layer and a bottom layer sealed around the perimeter of the layers to form a reservoir between the layers, wherein the top layer has gas barrier properties and the bottom layer has gas transfer properties, and the reservoir is packaged with one or more predetermined gases.
59. (New) The apparatus of claim 58, wherein the apparatus further comprises an adhesive backing configured to affix the apparatus to the target area.
60. (New) The apparatus of claim 58, wherein the top layer is comprised of a metallized polyester.
61. (New) The apparatus of claim 58, wherein the top layer is comprised of a ceramic coated polyester.
62. (New) The apparatus of claim 58, wherein the top layer is comprised of a polyvinylidene chloride laminate.
63. (New) The apparatus of claim 62, wherein the polyvinylidene chloride laminate is Saranex®.
64. (New) The apparatus of claim 58, wherein the top layer is comprised of an EVOH laminate.
65. (New) The apparatus of claim 64, wherein the EVOH laminate is Oxysield®.

- 66. (New) The apparatus of claim 58, wherein the top layer is comprised of a polyamide laminate.
- 67. (New) The apparatus of claim 66, wherein the polyamide laminate is Capran®.
- 68. (New) The apparatus of claim 58, wherein the top layer is comprised polyethylene.
- 69. (New) The apparatus of claim 58, wherein the top layer conducts heat or electrical stimulation from an external source to the target area.
- 70. (New) The apparatus of claim 58, wherein the bottom layer is comprised of polyurethane, silicone, polyvinylchloride, ethylene vinyl alcohol or polyolefins.
- 71. (New) The apparatus of claim 58, wherein the bottom layer is porous or perforated
- 72. (New) The apparatus of claim 71, wherein the bottom layer is porous or perforated in a manner sufficient to allow non-gas entities to pass through.
- 73. (New) The apparatus of claim 72, wherein the non-gas entities comprise nutritional or therapeutic agents.
- 74. (New) The apparatus of claim 58, wherein the gas contained in the reservoir is controllably released through the bottom layer to the target area.
- 75. (New) The apparatus of claim 58, wherein an absorbent layer is attached to the bottom layer and the absorbent layer is between the bottom layer and the target area.
- 76. (New) The apparatus of claim 58, wherein an absorbent layer is attached to the bottom layer and said absorbent layer is between the top layer and the bottom layer.
- 77. (New) The apparatus of claim 75 or 76, wherein the absorbent layer is ring-shaped.
- 78. (New) The apparatus of claim 59, wherein the adhesive backing covers the perimeter of the bottom layer.
- 79. (New) The apparatus of claim 59, wherein the adhesive backing covers the entire apparatus.

80. (New) The apparatus of claim 79, wherein the adhesive backing is integrated with the bottom layer.
81. (New) The apparatus of claim 58, wherein a compliant porous insert is contained within the reservoir.
82. (New) The apparatus of claim 81, wherein the compliant porous insert is comprised of a sponge-like material.
83. (New) The apparatus of claim 81, wherein an absorbent layer is incorporated into the compliant porous insert.
84. (New) The apparatus of claim 81, wherein the compliant porous insert fills the entire reservoir and is adjacent to both the top layer and the bottom layer.
85. (New) The apparatus of claim 75, wherein a compliant porous insert is incorporated in the absorbent layer.
86. (New) The apparatus of claim 58, wherein the gas in the reservoir is oxygen.
87. (New) The apparatus of claim 58, wherein the gas in the reservoir is nitrogen.
88. (New) The apparatus of claim 58, wherein the gas in the reservoir is carbon dioxide.
89. (New) The apparatus of claim 58, wherein the reservoir further contains a biologically beneficial agent.
90. (New) The apparatus of claim 89, wherein the biologically beneficial agent is a drug, mineral, nutrient, amino acid, pH modifier, anti-microbial, growth factor or enzyme.
91. (New) The apparatus of claim 90, wherein the biologically beneficial agent is contained in microcapsules incorporated in the adhesive backing.
92. (New) The apparatus of claim 90, wherein the biologically beneficial agent is contained in a gel matrix in the reservoir.
93. (New) The apparatus of claim 58, wherein either the top layer or the bottom layer or both further comprise a plurality of spaced apart ribs.

94. (New) The apparatus of claim 58, which is in a form of a glove or mitten.
95. (New) The apparatus of claim 58, which is in a form of a sock.
96. (New) The apparatus of claims 58, further comprising a gasket that seals the top and bottom layers together around the perimeter.
97. (New) The apparatus of claim 96, wherein the gasket is a reinforced gasket that extends into the reservoir.
98. (New) The apparatus of claim 58, further comprising a septum.
99. (New) The apparatus of claim 58, further comprising a substantially gas-impermeable enclosed container containing one or more second predetermined gases, the enclosed container also containing the top and bottom layers and corresponding reservoir, wherein the one or more predetermined gases of the reservoir and the one or more second gases diffuse through the bottom layer to reach equilibrium within the container and the reservoir.
100. (New) A tissue dressing apparatus for supplying one or more gases to a target area, comprising a top layer, an absorbent layer and a bottom layer sealed around the perimeter of the layers to form a reservoir between the top and bottom layers, wherein the top layer has gas barrier properties, the bottom layer has gas transfer properties and the absorbent layer is attached to the bottom layer, and the reservoir is packaged with one or more predetermined gases.
101. (New) A tissue dressing apparatus for supplying one or more gases to a target area, comprising a top layer, an absorbent layer, a bottom layer and a gel layer sealed around the perimeter of the layers to form a reservoir between the top and bottom layers and filled with the absorbent layer, said reservoir is packaged with one or more predetermined gases, wherein

the top layer has gas barrier properties,

the absorbent layer is attached to the bottom layer and has high gas transfer properties,

the bottom layer has gas transfer properties, and

the gel layer is attached to the bottom layer and contacts the target area.

102. (New) A tissue dressing apparatus for supplying one or more gases to a target area, comprising a top layer having gas barrier properties and an adhesive layer, wherein the adhesive layer having gas barrier properties is attached to the perimeter of the top layer, such that the adhesive layer adheres to the surface around the target area, forming a reservoir between the top layer and the target area such that the adhesive layer comprises the sides of the reservoir, wherein after application of the apparatus to a target area, the reservoir is filled with one or more predetermined gases according to a predetermined ratio via an external source, and wherein the external source is removed once the reservoir is filled with the one or more predetermined gases according to the predetermined ratio.
103. (New) The apparatus of claim 102, wherein the top layer is convex when placed over the target area.